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=> s alkaligenes and creatine  
L1 6 ALKALIGENES AND CREATINE

=> s alcaligenes and creatine  
L2 54 ALCALIGENES AND CREATINE

=> s l1 not l2  
L3 4 L1 NOT L2

=> dup rem l3  
PROCESSING COMPLETED FOR L3  
L4 4 DUP REM L3 (0 DUPLICATES REMOVED)

=> d 1-4

L4 ANSWER 1 OF 4 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN  
AN 2002:29488 BIOSIS  
DN PREV200200029488  
TI \*\*\*Creatine\*\*\* amidinohydrolase from \*\*\*alkaligenes\*\*\* sp. KS-85  
ferm BP-4487.  
AU Furukawa, K. [Inventor]; Hashimoto, K. [Inventor]; Suzuki, M. [Inventor]  
CS Noda, Japan  
ASSIGNEE: KIKKOMAN CORPORATION  
PI US 5451520 Sept. 19, 1995  
SO Official Gazette of the United States Patent and Trademark Office Patents,  
(Sept. 19, 1995) Vol. 1178, No. 3, pp. 1663. print.  
CODEN: OGUPE7. ISSN: 0098-1133.  
DT Patent  
LA English  
ED Entered STN: 26 Dec 2001  
Last Updated on STN: 25 Feb 2002

L4 ANSWER 2 OF 4 WPIDS COPYRIGHT 2004 THE THOMSON CORP on STN  
AN 1981-40767D [23] WPIDS  
TI Creatinine amidohydase prodn. - by aerobic culture of bacteria of genus  
\*\*\*Alkaligenes\*\*\* and recovering enzyme from culture medium.  
DC B04 D16  
PA (KOBAN) KOBAYASHI SEIYAKU K  
CYC 1  
PI JP 56039781 A 19810415 (198123)\*  
JP 57029992 B 19820625 (198229)  
PRAI JP 1979-116369 19790911  
IC C12N009-80; C12R001-05

L4 ANSWER 3 OF 4 WPIDS COPYRIGHT 2004 THE THOMSON CORP on STN  
AN 1980-28511C [16] WPIDS  
TI Creatinine amidohydrolase and/or \*\*\*creatinine\*\*\* amidino-hydrolase  
prodn. - by incubation of \*\*\*Alkaligenes\*\*\* ak-2, prod. being useful  
for creatinine analysis.  
DC B04 D16 J04  
PA (TOYM) TOYOBO KK

CYC 1  
 PI JP 55034029 A 19800310 (198016)\*  
 JP 60050437 B 19851108 (198549)  
 PRAI JP 1978-105039 19780828  
 IC C12N009-80; C12R001-05

L4 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1916:16790 HCAPLUS  
 DN 10:16790  
 OREF 10:3088h-i,3089a-d  
 TI Studies in the nitrogen metabolism of bacteria  
 AU Sears, H. J.  
 CS Stanford Univ.  
 SO Journal of Infectious Diseases (1916), 19, 106-37  
 CODEN: JIDIAQ; ISSN: 0022-1899  
 DT Journal  
 LA Unavailable

=> dup rem 12  
 PROCESSING COMPLETED FOR L2  
 L5 30 DUP REM L2 (24 DUPLICATES REMOVED)

=> d 1-10

L5 ANSWER 1 OF 30 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2002:869629 HCAPLUS  
 DN 137:364365  
 TI Analysis of biological states by recognizing statistically significant  
 patterns in gene expression profiles  
 IN Stephanopoulos, Gregory; Misra, Jatin; Hwang, Daehee; Schmitt, William A.;  
 Alevizos, Ilias; Silva, Saliya Sudharshana; Gill, Ryan T.  
 PA USA  
 SO U.S. Pat. Appl. Publ., 63 pp.  
 CODEN: USXXCO  
 DT Patent  
 LA English  
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002169562	A1	20021114	US 2002-60048	20020129
	US 2004181344	A1	20040916	US 2003-716825	20031118
PRAI	US 2001-264779P	P	20010129		
	US 2001-285186P	P	20010420		
	US 2002-60048	A2	20020129		
	US 2002-427265P	P	20021118		

L5 ANSWER 2 OF 30 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN  
 DUPLICATE 1  
 AN 2000-12466 BIOTECHDS  
 TI Novel thermostable \*\*\*Alcaligenes\*\*\* -derived \*\*\*creatine\*\*\*  
 -amidinohydrolase, useful for the diagnosis of kidney diseases and  
 related diseases;  
 creatinase production involving vector plasmid pUCE100-mediated gene  
 transfer for expression Escherichia coli  
 AU Furukawa K; Koyama Y; Suzuki M  
 PA Kikkoman  
 LO Chiba, Japan.  
 PI WO 2000040708 13 Jul 2000  
 AI WO 1999-JP7424 28 Dec 1999  
 PRAI JP 1999-33359 1 Jan 1999  
 DT Patent  
 LA Japanese  
 OS WPI: 2000-475827 [41]

L5 ANSWER 3 OF 30 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN  
 DUPLICATE 2  
 AN 2000-11471 BIOTECHDS  
 TI Highly thermostable \*\*\*creatine\*\*\* -amidinohydrolase with optimum pH  
 in weakly acidic region, useful in assaying serum or urine  
 \*\*\*creatine\*\*\* for diagnosis of e.g. kidney diseases, scarcely affected  
 by bilirubin;  
 \*\*\*creatine\*\*\* -amidohydrolase isolation, produced by a  
 transformant Escherichia coli  
 AU Furukawa K; Ichikawa T  
 PA Kikkoman

LO Chiba, Japan.  
PI WO 2000031245 2 Jun 2000  
AI WO 1999-JP6583 25 Nov 1999  
PRAI JP 1998-334252 25 Nov 1998  
DT Patent  
LA Japanese  
OS WPI: 2000-411951 [35]

L5 ANSWER 4 OF 30 HCAPLUS COPYRIGHT 2004 ACS on STN  
AN 1998:423907 HCAPLUS  
DN 129:92258

TI Recombinant preparation of \*\*\*creatinine\*\*\* amidinohydrolase mutants of  
\*\*\*Alcaligenes\*\*\* faecalis with improved thermostability  
IN Sokabe, Atsushi; Nishiya, Yoshiaki; Kawamura, Yoshihisa  
PA Toyobo Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 14 pp.  
CODEN: JKXXAF

DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10174585	A2	19980630	JP 1996-337027	19961217
	JP 3422197	B2	20030630		
	JP 2001346594	A2	20011218	JP 2001-121708	19961217
PRAI	JP 1996-337027	A3	19961217		

L5 ANSWER 5 OF 30 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN  
AN 1997-10210 BIOTECHDS

TI Novel creatinine-amidohydrolase;  
\*\*\*Alcaligenes\*\*\* faecalis recombinant thermostable creatininase  
purification, characterization and expression

PA Toyobo  
LO Japan.  
PI JP 09154574 17 Jun 1997  
AI JP 1995-314295 1 Dec 1995  
PRAI JP 1995-314295 1 Dec 1995  
DT Patent  
LA Japanese  
OS WPI: 1997-367057 [34]

L5 ANSWER 6 OF 30 HCAPLUS COPYRIGHT 2004 ACS on STN  
AN 1997:591389 HCAPLUS  
DN 127:187507

TI Novel mutant \*\*\*creatinine\*\*\* amidinohydrolase from \*\*\*Alcaligenes\*\*\*  
and its production and analytical use  
IN Sogabe, Atsushi; Hattori, Takashi; Nishiya, Yoshiaka; Kawamura, Yoshihisa  
PA Toyo Boseki Kabushiki Kaisha, Japan  
SO Eur. Pat. Appl., 21 pp.  
CODEN: EPXXDW

DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 790303	A1	19970820	EP 1997-102270	19970213
	R: DE, FR, GB, IT				
	JP 09215494	A2	19970819	JP 1996-25435	19960213
	JP 3075390	B2	20000814		
	US 6080553	A	20000627	US 1997-799897	19970213
	EP 1132467	A2	20010912	EP 2001-113052	19970213
	EP 1132467	A3	20011010		
	R: DE, FR, GB, IT				
PRAI	JP 1996-25435	A	19960213		
	EP 1997-102270	A3	19970213		

L5 ANSWER 7 OF 30 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN  
DUPLICATE 3  
AN 1997-02494 BIOTECHDS

TI A gene coding for \*\*\*creatinine\*\*\* -amidinohydrolase;  
\*\*\*Alcaligenes\*\*\* faecalis thermostable creatininase expression in  
Serratia liquefaciens for use in \*\*\*creatinine\*\*\* determination and  
disease diagnosis

PA Toyobo  
LO Japan.  
PI JP 08308579 26 Nov 1996

AI JP 1995-117283 16 May 1995  
PRAI JP 1995-117283 16 May 1995  
DT Patent  
LA Japanese  
OS WPI: 1997-059698 [06]

L5 ANSWER 8 OF 30 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN  
DUPLICATE 4

AN 1996-06800 BIOTECHDS  
TI DNA encoding \*\*\*creatinine\*\*\* -amidinohydrolase;  
\*\*\*Alcaligenes\*\*\* sp. creatinase gene cloning and expression for  
use in kidney disease diagnosis, etc.

AU Furukawa K; Ichikawa T; Suzuki M; Koyama Y  
PA Kikkoman  
LO Chiba, Japan.  
PI DE 19536506 4 Apr 1996  
AI DE 1995-1036506 29 Sep 1995  
PRAI JP 1994-235737 29 Sep 1994  
DT Patent  
LA German  
OS WPI: 1996-180805 [19]

L5 ANSWER 9 OF 30 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN  
DUPLICATE 5

AN 1996-01134 BIOTECHDS  
TI \*\*\*Creatine\*\*\* -amidinohydrolase;  
purification and characterization of creatinase produced by  
\*\*\*Alcaligenes\*\*\* faecalis

PA Toyobo  
LO Japan.  
PI JP 07265074 17 Oct 1995  
AI JP 1994-63363 31 Mar 1994  
PRAI JP 1994-63363 31 Mar 1994  
DT Patent  
LA Japanese  
OS WPI: 1995-388685 [50]

L5 ANSWER 10 OF 30 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN  
DUPLICATE 6

AN 1995-11084 BIOTECHDS  
TI New \*\*\*creatinine\*\*\* -amidinohydrolase enzyme from \*\*\*Alcaligenes\*\*\*  
; creatinase preparation, purification and characterization from  
\*\*\*Alcaligenes\*\*\* sp. for use as a diagnostic

AU Furukawa K; Hashimoto K; Suzuki M  
PA Kikkoman  
PI DE 4445084 22 Jun 1995  
AI DE 1994-4445084 16 Dec 1994  
PRAI JP 1993-318675 17 Dec 1993  
DT Patent  
LA German  
OS WPI: 1995-225787 [30]

=> d 8-10 ab

L5 ANSWER 8 OF 30 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN

AB A new DNA sequence (1215 bp) encodes a \*\*\*creatinine\*\*\*  
-amidinohydrolase (CAH, creatinase, EC-3.5.3.3) with a 404-amino-acid  
protein sequence, or is a degenerate or hybridizing sequence. The DNA  
may be inserted in a vector for expression in a host cell. The enzyme is  
from \*\*\*Alcaligenes\*\*\* sp. KS-85 (FERM BP-4487). The enzyme is  
specific for \*\*\*creatinine\*\*\*, converting it to sarcosine and urea, and  
has a pH optimum of 7-9 (with stability at pH 5-10.5) and a temp. optimum  
of 35-45 deg. The enzyme is strongly inhibited by silver, mercury and  
copper, has a Km for \*\*\*creatinine\*\*\* of 0.013 M, and has a mol.wt. of  
75,000-85,000 (gel filtration). The enzyme may be used in quantification  
of \*\*\*creatinine\*\*\*, e.g. in diagnosis of kidney disease by measuring  
the \*\*\*creatinine\*\*\* content of serum or urine. CAH may be produced  
efficiently by this method, without addition of \*\*\*creatinine\*\*\* to the  
culture medium. Unlike known CAHs, the new CAH has a low Km, which  
reduces assay time, and is stable over a wide pH range. (18pp)

L5 ANSWER 9 OF 30 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN

AB A thermostable \*\*\*creatinine\*\*\* -amidinohydrolase (creatinase,  
EC-3.5.3.3) produced by \*\*\*Alcaligenes\*\*\* faecalis TE3581 (FERM

P-14237) is claimed. The new enzyme has the following properties: (1) optimal temp. 40-45 deg; (2) optimal pH 8.0-8.1; (3) thermostable at up to 50 deg at pH 7.5 for 30 min; (4) stable at pH 5-8 and at 40 deg for 18 hr; (5) Km = 15.2 mM ( \*\*\*creatinine\*\*\* ); (6) mol.wt. 67,000 (gel filtration) and 43,000 (SDS-PAGE); and (7) pI = 3.5. The enzyme is produced by culturing *A. faecalis* TE3581 in a nutrient medium at 20-40 (preferably 25-37) deg and at pH 5-9 (preferably 6-8) for 1-7 days under aerobic conditions. The enzyme is isolated and purified by conventional methods. The thermostable creatinase is useful for the quantitative determination of \*\*\*creatinine\*\*\*. In an example, 100 ul of a \*\*\*creatinine\*\*\* solution (6 mg/l) was added to 3 ml of a mixture of 50 U/ml creatinase, 20 U/ml sarcosine-oxidase (EC-1.5.3.1), 2.9 U/ml peroxidase (EC-1.11.1.7), 0.1 M PIPES buffer (pH 7.0), 0.74 mM 4-aminoantipyrine and 1 mM DAOS. Changes in the absorption rate were determined at 1 min intervals at 37 deg and 600 nm for 10 min. (9pp)

L5 ANSWER 10 OF 30 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN  
AB A creatinase enzyme ((I), EC-3.5.3.3) with the following properties, is claimed: (a) it hydrolyzes \*\*\*creatinine\*\*\* to produce 1 mol sarcosine and 1 mol urea from 1 mol \*\*\*creatinine\*\*\*; (b) it has substrate-specificity for \*\*\*creatinine\*\*\*; (c) an optimum pH of 7-9; (d) it has an optimum temp. of 35-45 deg; (e) it is stable at pH 5-10.5 for 17 hrs at 25 deg; (f) it is stable at 45 deg for 30 min at pH 7.5; (g) it is inhibited by AgNO<sub>3</sub>, HgCl<sub>2</sub> and CuSO<sub>4</sub>; and (h) it has a mol.wt. 80,000 +/- 5,000. Also claimed is a process for producing (I) involving culturing a (I)-producing \*\*\*Alcaligenes\*\*\* strain and isolating (I) from the culture. (I) is useful in the determination of \*\*\*creatinine\*\*\* and/or creatinine, especially in human serum or urine e.g. for diagnosis of kidney disease. In an example, a medium (20 l) containing 1.6% \*\*\*creatinine\*\*\*, 2% polypeptone, 0.8% yeast extract, 0.03% KH<sub>2</sub>PO<sub>4</sub>, 0.07% K<sub>2</sub>HPO<sub>4</sub>, 0.02% MgSO<sub>4</sub>.7H<sub>2</sub>O and 0.02% MnSO<sub>4</sub>.4H<sub>2</sub>O was inoculated with an \*\*\*Alcaligenes\*\*\* sp. KS-85 (FERM BP-4487) seed culture and stirred and aerated at 30 deg for 24 hrs. The enzyme was purified by column chromatography to give 2.2 g product with a specific activity of 9 U/OD280. (12pp)

=> d 7 ab

L5 ANSWER 7 OF 30 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN  
AB A creatinase (I, EC-3.5.3.3) gene encoding (I) of disclosed protein sequence or an enzyme with at least 1 amino acid addition, deletion or substitution is claimed. Also claimed are: a gene encoding (I) with the ability to convert \*\*\*creatinine\*\*\* and water into sarcosine and urea, having optimal activity at 40-45 deg and pH 8.0-9.0, being stable at 50 deg (pH 7.5, 30 min) and pH 4-10, having a Km value for \*\*\*creatinine\*\*\* of about 15.2 mM and a mol.wt. of 43,000 (SDS-PAGE), and having an isoelectric point of pH 3.5; a gene encoding (I) produced by \*\*\*Alcaligenes\*\*\* faecalis TE3581 (FERM P-14237); a (I) gene of disclosed DNA sequence; a recombinant vector containing a (I) gene; a transformant formed by transforming host cells (preferably Gram-negative bacteria, especially *Serratia liquefaciens*) with the recombinant vector; and production of recombinant (I), which involves culturing the transformant in culture medium and recovering the produced (I). (I) is used in quantification of blood or urinary (I) and \*\*\*creatinine\*\*\* in disease diagnosis. (I) is thermostable.

=> d 11-20

L5 ANSWER 11 OF 30 LIFESCI COPYRIGHT 2004 CSA on STN  
AN 97:10782 LIFESCI  
TI \*\*\*Creatine\*\*\* amidinohydrolase from *Alkaligenes* sp. ks-85 ferm bp-4487  
CS KIKKOMAN CORPORATION  
SO (1995) . US Patent 5451520; US Cl. 435/227 435/252.1 435/829.  
DT Patent  
FS A; w2  
LA English

L5 ANSWER 12 OF 30 SCISEARCH COPYRIGHT (c) 2004 The Thomson Corporation.  
on STN  
AN 93:390121 SCISEARCH  
GA The Genuine Article (R) Number: LG890  
TI AN ASYNCHRONOUS UNFOLDING AMONG MOLECULAR DIFFERENT REGIONS OF LOBSTER D-GLYCERALDEHYDE-3-PHOSPHATE DEHYDROGENASE AND MALTOTETRAOSE-FORMING

AMYLAASE FROM AN \*\*\*ALCALIGENES\*\*\* SP DURING GUANIDINE DENATURATION  
AU HE R Q (Reprint); ZHAO K Y; YAN Z Z; LI M  
CS ACAD SINICA, INST BIOPHYS, NATL LAB BIOMACROMOLEC, 15 DAN TUN RD, BEIJING  
100101, PEOPLES R CHINA (Reprint); CHINESE ACAD SCI, INST MICROBIOL,  
BEIJING, PEOPLES R CHINA  
CYA PEOPLES REPUBLIC OF CHINA  
SO BIOCHIMICA ET BIOPHYSICA ACTA, (04 JUN 1993) Vol. 1163, No. 3, pp.  
315-320.  
ISSN: 0006-3002.  
DT Article; Journal  
FS LIFE  
LA ENGLISH  
REC Reference Count: 31  
\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L5 ANSWER 13 OF 30 SCISEARCH COPYRIGHT (c) 2004 The Thomson Corporation.  
on STN  
AN 92:609285 SCISEARCH  
GA The Genuine Article (R) Number: JT339  
TI EFFECTS OF PH, TEMPERATURE AND REACTION-PRODUCTS ON THE PERFORMANCE OF AN  
IMMOBILIZED CREATININASE-CREATINASE-SARCOSINE OXIDASE ENZYME-SYSTEM FOR  
CREATININE DETERMINATION  
AU SAKSLUND H; HAMMERICH O (Reprint)  
CS UNIV COPENHAGEN, HC ORSTED INST, DEPT CHEM, UNIVERSITETSPARKEN 5, DK-2100  
COPENHAGEN, DENMARK  
CYA DENMARK  
SO ANALYTICA CHIMICA ACTA, (16 OCT 1992) Vol. 268, No. 2, pp. 331-345.  
ISSN: 0003-2670.  
DT Article; Journal  
FS PHYS  
LA ENGLISH  
REC Reference Count: 49  
\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L5 ANSWER 14 OF 30 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN  
DUPLICATE 7  
AN 1987-09207 BIOTECHDS  
TI Production of \*\*\*creatinine\*\*\* -amidinohydrolase;  
using \*\*\*Alcaligenes\*\*\* sp.  
PA Kobayashi-Pharm.  
PI JP 62091182 25 Apr 1987  
AI JP 1985-234163 18 Oct 1985  
PRAI JP 1985-234163 18 Oct 1985  
DT Patent  
LA Japanese  
OS WPI: 1987-153951 [22]

L5 ANSWER 15 OF 30 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on  
STN DUPLICATE 8  
AN 1987:114757 BIOSIS  
DN PREV198732053874; BR32:53874  
TI EVIDENCE FOR THE PRESENCE OF A CYTOSINE DEAMINASE THAT DOES NOT CATALYZE  
THE DEIMINATION OF \*\*\*CREATINE\*\*\*  
AU KIM J M [Reprint author]; SHIMIZU S; YAMADA H  
CS DEP AGRIC CHEM, FAC AGRIC, KYOTO UNIV, KYOTO 606, JPN  
SO Febs Letters, (1987) Vol. 210, No. 1, pp. 77-80.  
CODEN: FEBLAL. ISSN: 0014-5793.  
DT Article  
FS BR  
LA ENGLISH  
ED Entered STN: 28 Feb 1987  
Last Updated on STN: 28 Feb 1987

L5 ANSWER 16 OF 30 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN  
DUPLICATE 9  
AN 1987-02879 BIOTECHDS  
TI Sarcosine-oxidase involved in creatinine degradation in  
\*\*\*Alcaligenes\*\*\* denitrificans subsp. denitrificans J9 and  
Arthrobacter spp. J5 and J11;  
enzyme purification and partial characterization  
AU Kim J M; Shimizu S; Yamada H  
LO Department of Agricultural Chemistry, Faculty of Agriculture, Kyoto  
University, Kyoto 606, Japan.  
SO Agric.Biol.Chem.; (1986) 50, 11, 2811-16  
CODEN: ABCHA6  
DT Journal

LA English

L5 ANSWER 17 OF 30 MEDLINE on STN DUPLICATE 10  
AN 86298631 MEDLINE  
DN PubMed ID: 3742654  
TI Purification and characterization of \*\*\*creatine\*\*\* amidinohydrolase  
of \*\*\*Alcaligenes\*\*\* origin.  
AU Matsuda Y; Wakamatsu N; Inouye Y; Uede S; Hashimoto Y; Asano K; Nakamura S  
SO Chemical & pharmaceutical bulletin, (1986 May) 34 (5) 2155-60.  
Journal code: 0377775. ISSN: 0009-2363.  
CY Japan  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 198610  
ED Entered STN: 19900321  
Last updated on STN: 19900321  
Entered Medline: 19861015

L5 ANSWER 18 OF 30 SCISEARCH COPYRIGHT (c) 2004 The Thomson Corporation.  
on STN  
AN 86:353155 SCISEARCH  
GA The Genuine Article (R) Number: c7412  
TI PURIFICATION AND CHARACTERIZATION OF \*\*\*CREATINE\*\*\* AMIDINOHYDROLASE  
OF \*\*\*ALCALIGENES\*\*\* ORIGIN  
AU MATSUDA Y (Reprint); WAKAMATSU N; INOUE Y; UEDE S; HASHIMOTO Y; ASANO K;  
NAKAMURA S  
CS HIROSHIMA UNIV, SCH MED, FAC PHARMACEUT SCI, 1-2-3 KASUMI, MINAMI KU,  
HIROSHIMA 734, JAPAN (Reprint); KOBAYASHI PHARMACEUT CO LTD, CENT RES LAB,  
YODOGAWA KU, OSAKA 532, JAPAN  
CYA JAPAN  
SO CHEMICAL & PHARMACEUTICAL BULLETIN, (1986) Vol. 34, No. 5, pp. 2155-2160.  
DT Article; Journal  
FS LIFE  
LA ENGLISH  
REC Reference Count: 17

L5 ANSWER 19 OF 30 LIFESCI COPYRIGHT 2004 CSA on STN DUPLICATE 11  
AN 86:12838 LIFESCI  
TI Purification and characterization of creatinine amidohydrolase of  
\*\*\*Alcaligenes\*\*\* origin.  
AU Inouye, Y.; Matsuda, Y.; Naid, T.; Arai, S.; Hashimoto, Y.; Asano, K.;  
Ozaki, M.; Nakamura, S.  
CS Inst. Pharm. Sci., Hiroshima Univ. Sch. Med., 1-2-3 Kasumi, Minami-ku,  
Hiroshima 734, Japan  
SO CHEM. PHARM. BULL. (TOKYO)., (1986) vol. 34, no. 1, pp. 269-274.  
DT Journal  
FS L; J; A  
LA English  
SL English

L5 ANSWER 20 OF 30 HCAPLUS COPYRIGHT 2004 ACS on STN  
AN 1985:593663 HCAPLUS  
DN 103:193663  
TI Higher homolog and N-ethyl analog of \*\*\*creatine\*\*\* as synthetic  
phosphagen precursors in brain, heart, and muscle, repressors of liver  
amidinotransferase, and substrates for \*\*\*creatine\*\*\* catabolic  
enzymes  
AU Roberts, Jeffrey J.; Walker, James B.  
CS Dep. Biochem., Rice Univ., Houston, TX, 77251, USA  
SO Journal of Biological Chemistry (1985), 260(25), 13502-8  
CODEN: JBCHA3; ISSN: 0021-9258  
DT Journal  
LA English

=> d 17-19 ab

L5 ANSWER 17 OF 30 MEDLINE on STN DUPLICATE 10

L5 ANSWER 18 OF 30 SCISEARCH COPYRIGHT (c) 2004 The Thomson Corporation.  
on STN

L5 ANSWER 19 OF 30 LIFESCI COPYRIGHT 2004 CSA on STN DUPLICATE 11  
AB Creatinine amidohydrolase (creatininase) from \*\*\*Alcaligenes\*\*\* sp.  
nov. was purified to electrophoretic homogeneity by adsorption on

deithylaminoethyl-cellulose, affinity chromatography on creatinyl-AH-Sepharose, gel filtration on Sephadex G-200 and hydroxyapatite chromatography. The molecular weight of the enzyme was estimated to be estimated 160,000 by gel filtration on Sephadex G-200 and 80,000 by sodium dodecyl sulfate (SDS)-polyacrylamide gel electrophoresis, and the enzyme was assumed to consist of two identical subunits. The enzyme showed maximum activity pH 7-8 and was stable in the pH range of 8-11.5. The enzyme catalyzed interconversion between creatinine and \*\*\*creatine\*\*\*, and the K sub(m) values for creatinine and \*\*\*creatine\*\*\* were 60.9 mM and 162 mM, respectively. Though the enzyme was markedly inactivated by ethylenediamine-tetraacetate (EDTA), N-bromosuccinimide, Zn super(2+), Cu super(2+), Ni super(2+) or Co super(2+), activation of the enzyme was only observed in the presence of Mn super(2+).

=> d 21-30

L5 ANSWER 21 OF 30 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1984:82018 HCAPLUS  
 DN 100:82018  
 TI Process for purifying enzyme  
 IN Katsumata, Hideo; Katsumata, Shigeo; Ishii, Shinzo; Arai, Yuko  
 PA Kyowa Hakko Kogyo Co., Ltd. , Japan  
 SO Eur. Pat. Appl., 16 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 92845	A2	19831102	EP 1983-104077	19830426
	EP 92845	A3	19840314		
	EP 92845	B1	19870708		
	R: DE, FR, GB				
	JP 58209980	A2	19831207	JP 1982-70598	19820427
	JP 02060312	B4	19901214		
	US 4560661	A	19851224	US 1983-488174	19830425
PRAI	JP 1982-70598		19820427		

L5 ANSWER 22 OF 30 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1981:422953 HCAPLUS  
 DN 95:22953  
 TI Preparation of creatinine amidohydrolase  
 PA Kobayashi Pharmaceutical Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 5 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 56039781	A2	19810415	JP 1979-116369	19790911
	JP 57029992	B4	19820625		
PRAI	JP 1979-116369		19790911		

L5 ANSWER 23 OF 30 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1980:512317 HCAPLUS  
 DN 93:112317  
 TI Creatinineamide hydrolase and creatineamidino hydrolase  
 PA Toyobo Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 6 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 55034029	A2	19800310	JP 1978-105039	19780828
	JP 60050437	B4	19851108		
PRAI	JP 1978-105039		19780828		

L5 ANSWER 24 OF 30 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1979:589698 HCAPLUS  
 DN 91:189698  
 TI Recovery of soluble creatinase amidinohydrolase

IN Holz, Guenter; Gramsall, Johanna; Nelboeck-Hochstetter, Michael;  
Bergmeyer, Hans Ulrich  
PA Boehringer Mannheim G.m.b.H., Fed. Rep. Ger.  
SO Ger., 3 pp. Division to Ger. 2,122,294.  
CODEN: GWXXAW  
DT Patent  
LA German  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2167120	B1	19790802	DE 1971-2167120	19710505
	DE 2167120	C2	19800403		
PRAI	DE 1971-2167120		19710505		

L5 ANSWER 25 OF 30 HCAPLUS COPYRIGHT 2004 ACS on STN  
AN 1977:599190 HCAPLUS  
DN 87:199190  
TI Recovery of creatineamidinohydrolase  
IN Moellering, Hans; Beaucamp, Klaus; Nelboeck-Hochstetter, Michael;  
Bergmeyer, Hans Ulrich  
PA Boehringer Mannheim G.m.b.H., Fed. Rep. Ger.  
SO Ger. Offen., 12 pp. Division of Ger. Offen. 2,122,298.  
CODEN: GWXXBX  
DT Patent  
LA German  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2167035	A1	19771006	DE 1971-2167035	19710505
	DE 2167035	C3	19790510		
PRAI	DE 1971-2167035		19710505		

L5 ANSWER 26 OF 30 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on  
STN  
AN 1976:231352 BIOSIS  
DN PREV197662061352; BA62:61352  
TI JAUNDICE IN SEVERE BACTERIAL INFECTION.  
AU MILLER D J; KEETON G R; WEBBER B L; SAUNDERS S J  
SO Gastroenterology, (1976) Vol. 71, No. 1, pp. 94-97.  
CODEN: GASTAB. ISSN: 0016-5085.  
DT Article  
FS BA  
LA Unavailable

L5 ANSWER 27 OF 30 HCAPLUS COPYRIGHT 2004 ACS on STN  
AN 1973:476963 HCAPLUS  
DN 79:76963  
TI Growth of hydrogen bacteria in urine used as a nitrogen source  
AU Kesler, T. G.; Trubachev, I. N.; Voitovich, Ya. V.; Sid'ko, F. Ya.  
CS Inst. Phys., Krasnoyarsk, USSR  
SO Prikladnaya Biokhimiya i Mikrobiologiya (1973), 9(3), 480-3  
CODEN: PBMIK; ISSN: 0555-1099  
DT Journal  
LA Russian

L5 ANSWER 28 OF 30 HCAPLUS COPYRIGHT 2004 ACS on STN  
AN 1973:68764 HCAPLUS  
DN 78:68764  
TI Purification of creatinine amidohydrolase  
IN Moellering, Hans; Beaucamp, Klaus; Nelboeck-Hochstetter, Michael;  
Bergmeyer, Hans Ulrich  
PA Boehringer Mannheim G.m.b.H.  
SO Ger. Offen., 16 pp.  
CODEN: GWXXBX  
DT Patent  
LA German  
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2122298	A	19721123	DE 1971-2122298	19710505
	DE 2122298	C3	19790222		
	US 3806416	A	19740423	US 1972-249589	19720502
	NL 7205995	A	19721107	NL 1972-5995	19720504
	NL 175930	B	19840816		
	NL 175930	C	19850116		
	IT 954975	A	19730915	IT 1972-23890	19720504

AT	311288	B	19731112	AT	1972-3879	19720504
GB	1359403	A	19740710	GB	1972-20767	19720504
IL	39362	A1	19741129	IL	1972-39362	19720504
HU	166364	P	19750328	HU	1972-B01369	19720504
CH	572067	A	19760130	CH	1972-6622	19720504
CA	993386	A1	19760720	CA	1972-141498	19720504
DK	134026	B	19760830	DK	1972-2213	19720504
FI	51358	B	19760831	FI	1972-1267	19720504
SU	532341	D	19761015	SU	1972-1781172	19720504
FR	2182705	B1	19770114	FR	1972-15957	19720504
FR	2182705	A1	19731214			
JP	57029150	B4	19820621	JP	1972-44534	19720504
US	3912588	A	19751014	US	1973-411526	19731031
US	3907644	A	19750923	US	1973-415463	19731113
SE	7900292	A	19790112	SE	1979-292	19790112
PRAI	DE 1971-2122255		19710505			
	DE 1971-2122294		19710505			
	DE 1971-2122298		19710505			
	US 1972-247184		19720424			
	US 1972-249589		19720502			
	SE 1972-587		19720504			
	US 1973-411526		19731031			

L5 ANSWER 29 OF 30 WPIDS COPYRIGHT 2004 THE THOMSON CORP on STN  
AN 1972-74817T [47] WPIDS  
TI Growth of microorganisms - contg creatinine - amidohydrolase and  
creatinine-amidinohydrolase.  
DC B04 D16  
PA (BOEF) BOEHRINGER MANNHEIM GMBH  
CYC 7  
PI NL 7205996 A (197247)\*  
DE 2122294 A (197249)  
FR 2135301 A (197309)  
US 3806420 A 19740423 (197418)  
SU 421200 A 19740814 (197504)  
CH 572522 A 19760213 (197615)  
DE 2167120 A 19781116 (197847)  
DE 2122294 B 19781130 (197849)  
DE 2167120 B 19790802 (197932)  
JP 47043281 A 19721218 (198112)  
JP 56007674 B 19810219 (198112)  
NL 175434 B 19840601 (198425)  
ADT DE 2167120 A Div ex DE 1971-2122294 19710505, DE 1971-2167120 19710505  
PRAI DE 1971-2167120 19710505; DE 1971-2122294 19710505;  
DE 1971-2122298 19710505  
IC C12D013-10; C12N009-86; C12R001-05

L5 ANSWER 30 OF 30 WPIDS COPYRIGHT 2004 THE THOMSON CORP on STN  
AN 1972-74816T [47] WPIDS  
TI Isolation of creatinine amido hydrolase and \*\*\*creatinine\*\*\* -  
amidinohydrolase - from microorganisms, for use in clinical liver fun.  
DC B04 D16 S03 S05  
PA (BOEF) BOEHRINGER MANNHEIM GMBH  
CYC 10  
PI NL 7205995 A (197247)\*  
DE 2122298 A (197249)  
FR 2182705 A 19740118 (197406)  
US 3806416 A 19740423 (197418)  
GB 1359403 A 19740710 (197428)  
US 3907644 A 19750923 (197540)  
US 3912588 A 19751014 (197543)  
CH 572067 A 19760130 (197612)  
CA 993386 A 19760720 (197632)  
DE 2167034 A 19770922 (197739)  
DE 2167035 A 19771006 (197741)  
SU 532341 A 19770725 (197808)  
DE 2122298 B 19780629 (197827)  
DE 2167035 B 19780921 (197839)  
SE 7900292 A 19790618 (197927)  
DE 2167034 B 19800320 (198013)  
JP 47043283 A 19721218 (198228)  
JP 57029150 B 19820621 (198228)  
NL 175930 B 19840816 (198435)  
PRAI DE 1971-2122255 19710505; DE 1971-2122298 19710505;  
DE 1971-2167034 19710505  
IC C07C007-02; C07G007-28; C12D013-00; C12K001-00; C12N009-78; C12N009-80;

=> dis his

(FILE 'HOME' ENTERED AT 18:35:08 ON 17 NOV 2004)

FILE 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS,  
NTIS, ESBIODBASE, BIOTECHNO, WPIDS' ENTERED AT 18:35:19 ON 17 NOV 2004

L1 6 S ALKALIGENES AND CREATINE  
L2 54 S ALCALIGENES AND CREATINE  
L3 4 S L1 NOT L2  
L4 4 DUP REM L3 (0 DUPLICATES REMOVED)  
L5 30 DUP REM L2 (24 DUPLICATES REMOVED)

=> log h

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

109.75

109.96

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 18:49:55 ON 17 NOV 2004

**Slobodyansky, Elizabeth**

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**From:** Slobodyansky, Elizabeth  
**Sent:** Wednesday, November 17, 2004 4:44 PM  
**To:** STIC-PatentLawLib  
**Subject:** 10/807,228

Please do the litigation search for the above reissue application.

Thank you.

*Elizabeth Slobodyansky, PhD*

Primary Examiner  
Art Unit 1652  
REM 2D83  
571-272-0941  
MAILBOX 2C70

Slobodyansky Patent No. 6,080,553 Application No. 10/807,228

Query/Command : ..ba pluspat; (us6080553)/PN /XPN  
PLUSPAT - (c) Questel-Orbit, All Rights Reserved.  
Comprehensive Worldwide Patents database  
New Patent Citation Commands & FAM Citation Report - see INFO PATCITE  
Announcing enhanced searchability of Relevancy Codes in Search Reports  
for EP, WO and FR patents. For more details see below and on QO website  
-To retrieve set of high relevancy X coded cited patents, use xctx=yes  
-To extract cited patents with only high relevancy code, use mem/xctx  
Last update of file: 2004/11/17 (YYYY/MM/DD) 2004-46/UP (basic update)

**\*\* SS 1: Results 1**

Search statement 2

Query/Command : PRT SS 1 MAX 1

1 / 1 PLUSPAT - @QUESTEL-ORBIT - image  
**Patent Number :**  
US6080553 A 20000627 [US6080553]  
**Title :**  
(A) Creatine amidinohydrolase, production thereof and use thereof  
**Patent Assignee :**  
(A) TOYO BOSEKI (JP)  
**Patent Assignee :**  
Toyo Boseki Kabushiki Kaisha, Osaka [JP]  
**Inventor(s) :**  
(A) SOGABE ATSUSHI (JP); HATTORI TAKASHI (JP); NISHIYA YOSHIAKI (JP);  
KAWAMURA YOSHIHISA (JP)  
**Application Nbr :**  
US79989797 19970213 [1997US-0799897]  
**Priority Details :**  
JP2543596 19960213 [1996JP-0025435]  
**Intl Patent Class :**  
(A) C12N-001/00 C12N-001/20 C12N-009/78 C12Q-001/34  
**EPO ECLA Class :**  
C12Q-001/34  
G01N-033/52  
**US Patent Class :**  
ORIGINAL (O) : 435018000; CROSS-REFERENCE (X) : 435192000 435227000  
435252300 435252330 435320100 435829000  
**Document Type :**  
Corresponding document  
**Citations :**  
US3806420; US3907644; US5451520; JP62091182; JP07265074  
**Publication Stage :**  
(A) United States patent  
**Abstract :**  
A creatine amidinohydrolase having the following physicochemical properties:  
Action: catalyzing the following reaction;  
- creatine+H<sub>2</sub>O --> sarcosine+urea  
Optimum temperature: about 40-50 (degree) C.  
Optimum pH: pH about 8.0-9.0  
Heat stability: not more than about 50 (degree) C. (pH 7.5, 30 min)  
Km value for creatine in a coupling assay using a sarcosine oxidase and a peroxidase: about 3.5-10.0 mM  
Molecular weight: about 43,000 (SDS-PAGE)  
Isoelectric point: about 3.5,  
a method for producing said enzyme, comprising culture of microorganism producing said enzyme, a method for the determination of creatine or

Searched by P. Ruppel

Slobodyansky Patent No. 6,080,553 Application No. 10/807,228

creatinine in a sample using said enzyme, and a reagent therefor.  
**Update Code :**  
2000-26

## WEST Search History

DATE: Wednesday, November 17, 2004

Hide?	Set Name	Query	Hit Count
	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L7	L6 and (sequence or gene)	35
<input type="checkbox"/>	L6	L2 not l4	55
<input type="checkbox"/>	L5	L1 not l2	0
<input type="checkbox"/>	L4	L2 and (te3581 or p-14237)	4
<input type="checkbox"/>	L3	L2 not l1	35
<input type="checkbox"/>	L2	alcaligenes and creatine	59
<input type="checkbox"/>	L1	alcaligenes and amidinohydrolase	24

END OF SEARCH HISTORY

## Hit List

Search Results - Record(s) 1 through 4 of 4 returned.

☐ 1. Document ID: US 6080553 A

Using default format because multiple data bases are involved.

L4: Entry 1 of 4

File: USPT

Jun 27, 2000

US-PAT-NO: 6080553

DOCUMENT-IDENTIFIER: US 6080553 A

TITLE: Creatine amidinohydrolase, production thereof and use thereof

DATE-ISSUED: June 27, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sogabe; Atsushi	Tsuruga			JP
Hattori; Takashi	Tsuruga			JP
Nishiya; Yoshiaki	Tsuruga			JP
Kawamura; Yoshihisa	Tsuruga			JP

US-CL-CURRENT: 435/18; 435/192, 435/227, 435/252.3, 435/252.33, 435/320.1, 435/829

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWAC	Draw D
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☐ 2. Document ID: JP 08308579 A

L4: Entry 2 of 4

File: JPAB

Nov 26, 1996

PUB-NO: JP408308579A

DOCUMENT-IDENTIFIER: JP 08308579 A

TITLE: GENE ENCODING CREATINE AMIDINOHYDROLASE

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWAC	Draw D
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☐ 3. Document ID: JP 07265074 A

L4: Entry 3 of 4

File: JPAB

Oct 17, 1995

PUB-NO: JP407265074A

DOCUMENT-IDENTIFIER: JP 07265074 A

TITLE: NEW CREATINE AMIDINOHYDROLASE AND ITS USE

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Drawn
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☐ 4. Document ID: JP 07265074 A, JP 3114838 B2

L4: Entry 4 of 4

File: DWPI

Oct 17, 1995

DERWENT-ACC-NO: 1995-388685

DERWENT-WEEK: 200065

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TITLE: Creatine amidino:hydrolase - catalyses conversion of creatine to sarcosine and urea

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Drawn
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Clear	Generate Collection	Print	Fwd Refs	Back Refs	Generate OACS
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Terms	Documents
L2 and (te3581 or p-14237)	4

Display Format:

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[First Hit](#)[Previous Doc](#)[Next Doc](#)[Go to Doc#](#)

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L4: Entry 3 of 4

File: JPAB

Oct 17, 1995

DOCUMENT-IDENTIFIER: JP 07265074 A

TITLE: NEW CREATINE AMIDINOHYDROLASE AND ITS USEAbstract Text (1):

PURPOSE: To obtain a new creatine amidinohydrolase, useful as reagents for determining creatine and creatinine, excellent in thermal stability, having a low Km value for the creatine and good in reactivity.

Abstract Text (2):

CONSTITUTION: This creatine amidinohydrolase is obtained by culturing Alcaligenes faecalis TE3581 (FERM P-14237), etc., and has the following properties: (1) reacting with creatine and producing sarcosine and urea; (2) optimum temperature: about 40-45°C; (3) optimum pH: about 8.0-9.0; (4) stable at  $\leq$  about 50°C when kept warm at pH7.5 for 30min; (5) stable at pH about 5-8 when preserved at 40°C for 18hr; (6) about 15.2mM value of Km for creatine; (7) molecular weight: about 67000 (measured by the gel filtration method) and about 43000 [measured by the sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE)] and (8) isoelectric point: about 3.5.

[Previous Doc](#)[Next Doc](#)[Go to Doc#](#)

## Hit List

[Clear](#) [Generate Collection](#) [Print](#) [Fwd Refs](#) [Bkwd Refs](#)  
[Generate OACS](#)

Search Results - Record(s) 1 through 10 of 35 returned.

☐ 1. Document ID: US 20040171671 A1

Using default format because multiple data bases are involved.

L7: Entry 1 of 35

File: PGPB

Sep 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040171671  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040171671 A1

TITLE: Therapeutic compositions (II)

PUBLICATION-DATE: September 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Veech, Richard Lewis	Rockville	MD	US	

US-CL-CURRENT: 514/450; 549/267

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KNAC	Draw D
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☐ 2. Document ID: US 20040073966 A1

L7: Entry 2 of 35

File: PGPB

Apr 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040073966  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040073966 A1

TITLE: Herbicide-tolerant plants through bypassing metabolic pathway

PUBLICATION-DATE: April 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Zink, Olivier	Clermont-Ferrand		FR	
Paget, Eric	Caluire		FR	
Rolland, Anne	Lyon		FR	
Sailland, Alain	Saint-Didier-Au-Mont-D'or		FR	
Freyssinet, Georges	Saint-Cyr-Au-Mont-D'or		FR	

US-CL-CURRENT: 800/278; 435/189, 504/116.1, 530/370

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw D
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☐ 3. Document ID: US 20040072288 A1

L7: Entry 3 of 35

File: PGPB

Apr 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040072288

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040072288 A1

TITLE: Methods for altering cell fate to generate T-cells specific for an antigen of interest

PUBLICATION-DATE: April 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Collas, Philippe	Oslo	SD	NO	
Robl, James M.	Brandon		US	
Skalhegg, Bjorn Steen	Blommenholm		NO	

US-CL-CURRENT: 435/69.1; 435/372, 435/455

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw D
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☐ 4. Document ID: US 20040052820 A1

L7: Entry 4 of 35

File: PGPB

Mar 18, 2004

PGPUB-DOCUMENT-NUMBER: 20040052820

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040052820 A1

TITLE: Fusion proteins comprising DP-178 and other viral fusion inhibitor peptides useful for treating aids

PUBLICATION-DATE: March 18, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bolognesi, Dani Paul	Durham	NC	US	
Matthews, Thomas James	Durham	NC	US	
Wild, Carl T.	Durham	NC	US	
Barney, Shawn O?apos;Lin	Cary	NC	US	
Lambert, Dennis Michael	Cary	NC	US	
Petteway, Stephen Robert	Cary	NC	US	
Langlois, Alphonse J.	Durham	NC	US	

US-CL-CURRENT: 424/208.1; 424/188.1, 424/204.1, 530/300, 530/350

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 5. Document ID: US 20040033235 A1

L7: Entry 5 of 35

File: PGPB

Feb 19, 2004

PGPUB-DOCUMENT-NUMBER: 20040033235

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040033235 A1

TITLE: Nucleic acids encoding DP-178 and other viral fusion inhibitor peptides  
useful for treating aids

PUBLICATION-DATE: February 19, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bolognesi, Dani Paul	Durham	NC	US	
Matthews, Thomas James	Durham	NC	US	
Wild, Carl T.	Durham	NC	US	

US-CL-CURRENT: 424/186.1; 424/187.1, 424/188.1, 424/208.1, 530/350

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	--------

☐ 6. Document ID: US 20030175846 A1

L7: Entry 6 of 35

File: PGPB

Sep 18, 2003

PGPUB-DOCUMENT-NUMBER: 20030175846

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030175846 A1

TITLE: Methods, compositions and apparatuses for detection of gamma-hydroxybutyric  
acid (GHB)

PUBLICATION-DATE: September 18, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Parsons, Stanley M.	Santa Barbara	CA	US	
Harris, David O.	Santa Barbara	CA	US	
Bravo, Dawn T.	Santa Barbara	CA	US	

US-CL-CURRENT: 435/25; 435/4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 7. Document ID: US 20030119084 A1

L7: Entry 7 of 35

File: PGPB

Jun 26, 2003

PGPUB-DOCUMENT-NUMBER: 20030119084  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030119084 A1

TITLE: Variants of Erwinia-type creatinase

PUBLICATION-DATE: June 26, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Shao, Zhixin	Penzberg		DE	
Schmuck, Rainer	Benediktbeuern		DE	
Kratzsch, Peter	Antdorf		DE	
Kenklies, Janet	Penzberg		DE	
Weisser, Harald	Bernried		DE	

US-CL-CURRENT: 435/18; 435/227, 435/252.3, 435/320.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMC	Draw De
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☐ 8. Document ID: US 20030044783 A1

L7: Entry 8 of 35

File: PGPB

Mar 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030044783  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030044783 A1

TITLE: Human genes and gene expression products

PUBLICATION-DATE: March 6, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Williams, Lewis T.	Mill Valley	CA	US	
Escobedo, Jaime	Alamo	CA	US	
Innis, Michael A.	San Francisco	CA	US	
Garcia, Pablo Dominguez	Kensington	CA	US	
Sudduth-Klinger, Julie	Alameda	CA	US	
Reinhard, Christoph	Oakland	CA	US	
Randazzo, Filippo	San Francisco	CA	US	
Kennedy, Giulia C.	Arlington	VA	US	
Pot, David	Oakland	CA	US	
Kassam, Altaf	Moraga	CA	US	
Lamson, George	Palo Alto	CA	US	
Drmanac, Radjoe	Hollister	CA	US	

Dickson, Mark	Mountain View	CA	US
Labat, Ivan	Sunnyvale	CA	US
Jones, Lee William	Sunnyvale	CA	US
Stache-Crain, Birgit			US

US-CL-CURRENT: 435/6; 435/183, 435/320.1, 435/325, 435/69.1, 530/350, 530/388.1,  
536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 9. Document ID: US 20030022937 A1

L7: Entry 9 of 35

File: PGPB

Jan 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030022937  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030022937 A1

TITLE: Therapeutic compositions

PUBLICATION-DATE: January 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Veech, Richard L.	Rockville	MD	US	

US-CL-CURRENT: 514/557; 514/547

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 10. Document ID: US 20020169562 A1

L7: Entry 10 of 35

File: PGPB

Nov 14, 2002

PGPUB-DOCUMENT-NUMBER: 20020169562  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020169562 A1

TITLE: Defining biological states and related genes, proteins and patterns

PUBLICATION-DATE: November 14, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Stephanopoulos, Gregory	Chester	MA	US	
Misra, Jatin	Cambridge	MA	US	
Hwang, Daehee	Cambridge	MA	US	
Schmitt, William A. JR.	Boston	MA	US	
Alevizos, Ilias	Watertown	MA	US	
Silva, Saliya Sudharshana	Kandy	CO	LK	

Gill, Ryan T.

Boulde

US

US-CL-CURRENT: 702/19; 435/6, 530/350, 536/23.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	IMC	Draw D
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Search Results - Record(s) 31 through 35 of 35 returned.

☐ 31. Document ID: US 5043279 A

Using default format because multiple data bases are involved.

L7: Entry 31 of 35

File: USPT

Aug 27, 1991

US-PAT-NO: 5043279

DOCUMENT-IDENTIFIER: US 5043279 A

TITLE: DNA encoding a bacillus creatinase

DATE-ISSUED: August 27, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sagai; Hitoshi	Mishima			JP
Masujima; Harumi	Mishima			JP
Ikuta; Shigeru	Shizuoka			JP
Suzuki; Koji	Shizuoka			JP

US-CL-CURRENT: 435/227; 435/235.1, 435/252.3, 435/252.33, 435/320.1, 435/69.1,  
435/91.1, 435/91.41, 435/91.53, 530/350, 536/23.2, 536/23.7

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KBAC	Draw D
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☐ 32. Document ID: JP 2000201675 A

L7: Entry 32 of 35

File: JPAB

Jul 25, 2000

PUB-NO: JP02000201675A

DOCUMENT-IDENTIFIER: JP 2000201675 A

TITLE: HEAT-RESISTANT CREATINE AMIDINOHYDROLASE AND ITS PRODUCTION

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KBAC	Draw D
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☐ 33. Document ID: JP 10174585 A

L7: Entry 33 of 35

File: JPAB

Jun 30, 1998

PUB-NO: JP410174585A

DOCUMENT-IDENTIFIER: JP 10174585 A

TITLE: STABLE CREATINE AMIDINOHYDROLASE

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 34. Document ID: JP 08089255 A

L7: Entry 34 of 35

File: JPAB

Apr 9, 1996

PUB-NO: JP408089255A

DOCUMENT-IDENTIFIER: JP 08089255 A

TITLE: NOVEL CREATINE AMIDINOHYDROLASE GENE, NOVEL RECOMBINANT DNA AND PRODUCTION OF CREATINE AMIDINOHYDROLASE

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 35. Document ID: US 3365362 A

L7: Entry 35 of 35

File: USOC

Jan 23, 1968

US-PAT-NO: 3365362

DOCUMENT-IDENTIFIER: US 3365362 A

TITLE: Antibiotic for treating tuberculosis and method of producing same

DATE-ISSUED: January 23, 1968

INVENTOR-NAME: DENISE MANCY; LEON NINET ; JEAN PREUD HOMME

US-CL-CURRENT: 424/121, 435/128, 435/886, 435/897, 514/2, 530/350

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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Terms	Documents
L6 and (sequence or gene)	35

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L4: Entry 2 of 4

File: JPAB

Nov 26, 1996

DOCUMENT-IDENTIFIER: JP 08308579 A

TITLE: GENE ENCODING CREATINE AMIDINOHYDROLASEAbstract Text (1):

PURPOSE: To obtain the subject new gene encoding a specific amino acid sequence or creatine amidinohydrolase containing the amino acid sequence or that deficient in or substituted with a part of the amino acids, excellent in thermostability, useful for a clinical test medicine, etc., producing gene encoding creatine amidinohydrolase.

Abstract Text (2):

CONSTITUTION: This gene encoding creatine amidinohydrolase has an amino acid sequence of the formula or an amino acid sequence to which one or plural amino acids are added or which is deficient in or substituted with the one or plural amino acids in the amino acid sequence of the formula and which brings about creatine amidinohydrolase activity. The gene has an action to hydrolyze creatine and form sarcosine and urine, 40-45°C optimum temperature, optimum pH at 8.0 to 9.0, is stable at about pH 4 to 10 and has about 43,000 molecular weight (SDS-PAGE) and about 3.5 isoelectric point. The gene is obtained by separating a chromosomal DNA from Alcaligenes faecalis TE3581 (FERM P-14, 237), making its library and screening.

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# WEST Search History

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DATE: Wednesday, November 17, 2004

Hide?	Set Name	Query	Hit Count
	<i>DB=USPT; PLUR=YES; OP=ADJ</i>		
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<input type="checkbox"/>	L3	4420562.pn.	1
<input type="checkbox"/>	L2	3907644.pn.	1
<input type="checkbox"/>	L1	3806420.pn.	1

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